

154440

Tuesday, December 13, 2016 8:05:02 AM

N900040100

Setup Start *NS1*

Stop *NS2*

50

50

Reference:

Run Start *NR1*

Stop *NR2*

100 PURCHASING 0.00 50 DEC 16 2016
DAS 13 9-89

50 DEC 16 2016 13 9-89

Issue P/O: 346 10 1-Spin as per Dwg D2646 2-Material release
note required
Vendor: Sieg's Manufacturing

50 FEB 03 2017 DAS 6 9-89

50 FEB 03 2017 6

Ensure Material Release Note is attached

50 DAS 38

50

Memo

Quality Control

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

154440

Tuesday, December 13, 2016 8:05:02 AM

N900040100

Setup Start *NS1*

Stop *NS2*

50

50

Reference:

Run Start *NR1*

Stop *NR2*

[illegible]

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval																																																										
Description Work Order Deviation				Disposition				Completed By																																																									
340 01 00-2								Lead hand / Supervisor Approval Verification																																																									
								QC / QA Coordinator Approval																																																									
Root Cause		FAULT CATEGORY																																																															
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER :			
Misidentified ☐	Past Due ☐																																																																

Work Order ID 154440***154440***

Page 3

Tuesday, December 13, 2016 8:05:02 AM

Item ID: D2646 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: Aft Cap
Start Date: 12/13/2016 Start Qty: 50.00 ***50*** Cust Item ID:
Required Date: 1/6/2017 Req'd Qty: 50.00 ***50*** Customer:
Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
160 *160* Powdercoat Powder Coating	White Gloss(Ref: 4.325.1) per OSI005 4.3-Alum <i>11/30/16</i> Memo START TIME: <i>7:35</i> <i>30</i> FINISH TIME: <i>8:05</i> OVEN TEMPERATURE:	0.00 0.00				<i>49</i>	<i>0</i>	<i>1703-21</i>	<i>34</i> <i>9-89</i>
170 *170* QC Quality Control	QC3- Inspect Part Finish Memo	0.00 0.08				<i>49</i>	<i>0</i>	<i>20</i>	<i>12/03/21</i> <i>15</i> <i>9-89</i>
180 *180* Small Fab Small Fab	Small Fab Memo Install inserts as per Dwg D2646	0.00 0.25				<i>49</i>	<i>0</i>	<i>20</i>	<i>12/03/21</i> <i>BEB.</i>

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval	
Description Work Order Deviation				Disposition				Completed By	
120 3V 36				120 3V 36				Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐	OTHER : ☐			

Work Order ID 154440

Tuesday, December 13, 2016 8:05:02 AM

154440

Page 4

Item ID: D2646 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: Aft Cap
Start Date: 12/13/2016 Start Qty: 50.00 ***50*** Cust Item ID:
Required Date: 1/6/2017 Req'd Qty: 50.00 ***50*** Customer:
Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
190 *190* QC Quality Control	QC5- Inspect part completeness to step on W/O Memo	0.00 0.17				<u>49</u>			DAS 38 9-89 MAR 21 2017
200 *200* Packaging Packaging	Identify as per dwg & Stock Location: _____ Memo LOCATION : FP001	0.00 0.08				<u>49</u>			DAS 38 9-89 2017/03/21 BER.
210 *210* QC Quality Control	QC21- Final Inspection - Work Order Release Memo	0.00 0.83							DAS 21 9-89 MAR 21 2017 MF 17-3-21.

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
Date :		Step #:		QTY Effective :				MRB (QS1042) Approval																																																									
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval																																																									
Root Cause		FAULT CATEGORY																																																															
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER : ☐			
Misidentified ☐	Past Due ☐																																																																

Picklist Print

Tuesday, December 13, 2016 8:05:02 AM

Page 1

Work Order ID: 154440

154440

Parent Item: D2646

D2646

Parent Item Name: Aft Cap

Start Date: 12/13/2016

Required Date: 1/6/2017

Start Qty: 50.00

Required Qty: 50.00

Comments: IPP: G05.08.22Hole size revised in Step 5KJ/JLM
IPP Rev:H Changed Inserts 07-02-19 JLM
IPP rev I changed inserts 07.06.11 EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

ALS7-1032-130

AELS8-1032-130

Purchased

No

110

Each

611.0000

2

100

AI S7-1032-130

Rivnut

***M136579 x 98 BEB**

***ALS4-1032-130**

Location

Loc Qty

Loc Code

FG

100

M128649

50

M136048

50

FP001

161

M128649

161

ST556

350

M136048

350

D2646P

Purchased

No

180

Each

0.0000

1

50

D2646P

Aft Cap

FEB 03 2017

**DAS
6
9-89**

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

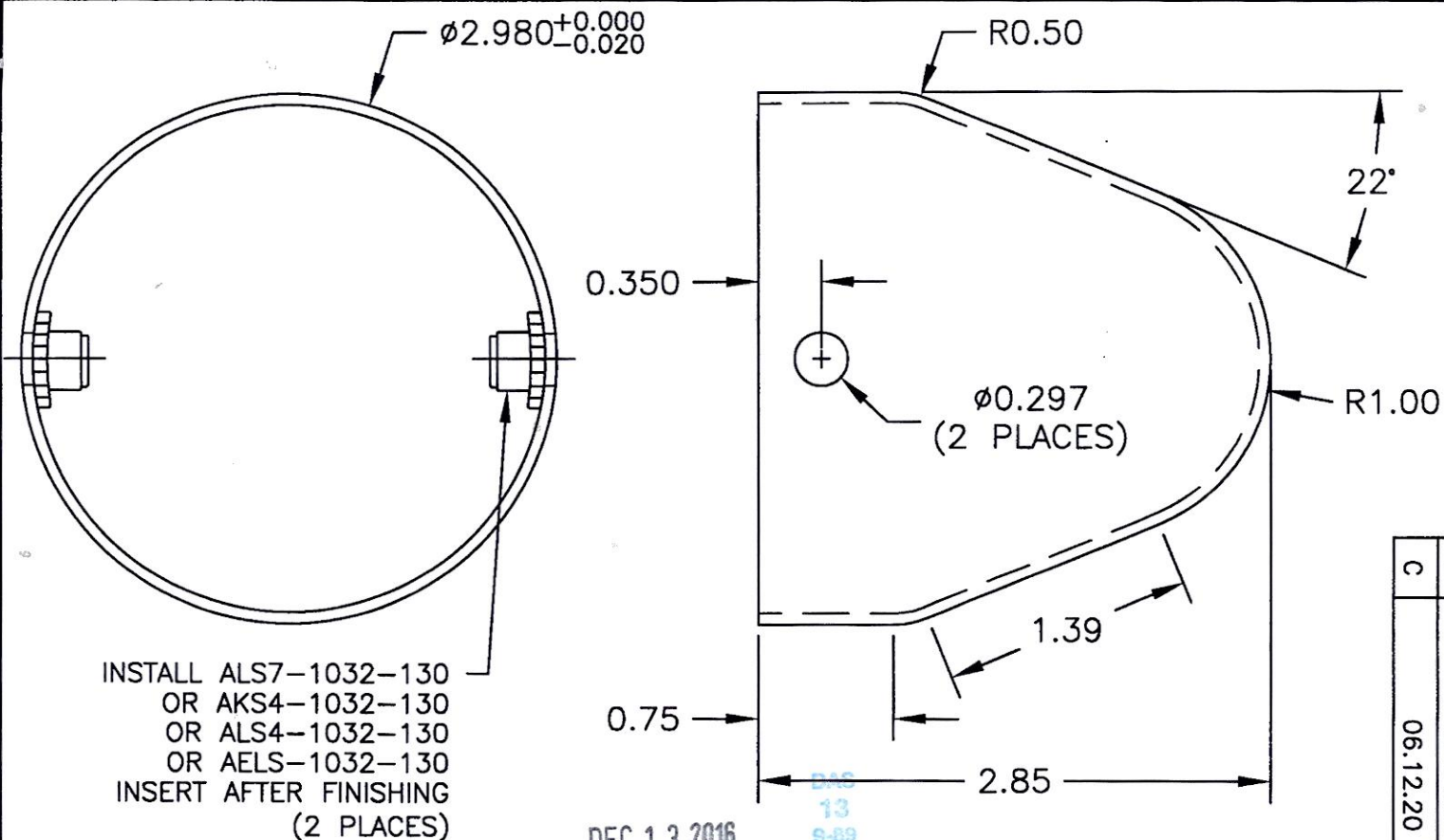
QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐				
Date :	Step #:	QTY Effective :			MRB (QS1042) Approval	
Description Work Order Deviation		Disposition			Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐				
		OTHER : ☐				

DART

DESIGN	DS	DRAWN BY	DART AEROSPACE USA, INC.	REV. C
CHECKED		APPROVED	DRAWING NO. D2646	SHEET 1 OF 1
DATE	06.12.20		TITLE AFT CAP	SCALE 1:1
A		97.03.25	NEW ISSUE	
B		05.04.01	CHANGE TO CLOSED INSERTS	
C		06.12.20	CHANGE TO OPEN ENDED INSERTS	



INSTALL ALS7-1032-130
OR AKS4-1032-130
OR ALS4-1032-130
OR AELS-1032-130
INSERT AFTER FINISHING
(2 PLACES)

DEC 13 2016

W10:154440

D2646 AFT CAP

- 1) MATERIAL: ALUMINUM 1100-O 0.063 THICK (QQ-A-250/1)
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
POWDER COAT ASSEMBLY WHITE (4.3.5.1) PER DART QSI 005 4.3
- 3) ALL DIMENSIONS ARE IN INCHES
- 4) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

RELEASED
07.02.12



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO34670**

Purchase Order Date 12/16/2016 11:14:39 AM

PO Print Date 12/16/2016

Page Number 1 of 2

Order From :

VC-SIE001

Ship To : DART AEROSPACE LTD

SIEG'S MANUFACTURING LTD.
6236 - 205 STREET
LANGLEY, BC V2Y 1N7
CA

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

DEC 16 2016

Contact Name

Vendor Phone

604 530 7455

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

CAD

FOB

FCA - (Free Carrier)

Ship To Contact

Ship To Phone

Ship Via:

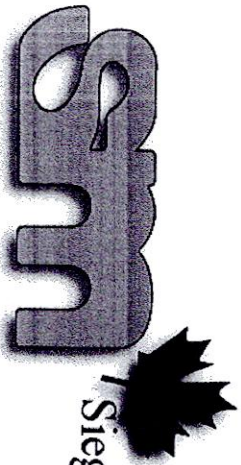
FedEx Overnight collect

Ship Acct:

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extend Pri
1	D2646P AS PER DWG D2646 REV. C B154440	Aft Cap	1/12/2017 Yes 1/12/2017		50.00 Each	\$6.70	\$335.0
						Line Total:	\$335.0
3	71401-45 Procurement Quality Clauses A005 right of entry A012 chemical and physical test report A016 personnel qualification A017 raw material identification (as applicable) A026 certification of material conformance A041 quality management system A042 dart notification by supplier A043 retention of quality documents	PROCUREMENT QUALITY CLAUSES	1/12/2017 No 1/12/2017		1.00	\$0.00	\$0.0

Note:

12/16/2016



Sieg's Manufacturing Ltd.

Quality Metal Spinning

Website: www.siegsnfg.com

6236 205 Street Langley, British Columbia, Canada V2Y 1N7
Phone: (604) 530-7455 ~Email: accounts@siegsnfg.com

Packing Slip

Packing Slip No.: 47815
Date: 01/31/2017
Page: 1

Sold to:

DART AEROSPACE LTD.
1270 ABERDEEN STREET
HAWKESBURY, ONTARIO K6A 1K7

Ship to:

DART AEROSPACE LTD.
1270 ABERDEEN STREET
HAWKESBURY, ONTARIO K6A 1K7

Order No.: 34670

Sold By: LOWEY, ARLA

Shipped By:

Ship Date: 01/31/2017

Tracking No.:

Item No.	Unit	Description	Quantity	Backorder quantity
----------	------	-------------	----------	--------------------

D2646P

Each

Aft Cap

50

FEB 03 2017

DAS
38
9-89

DAS
38
9-89

Comment:



Sieg's Manufacturing Ltd.

6236 205 Street Langley, B.C. Canada V2Y 1N7

Ph#: (604)530-7455 fax#: (604)530-7490

arlallowey@siegsfmfg.com

INSPECTION REPORT

Date: January 31 2017

Customer: Dart Areospace

Packing Slip: 47815

Part#:	Quantity	Material	Check holes	Insp. By.
D2646	50	14g 1100	N/a	AL

Notes:

Material Certification Attached: ____YES____



Skana Aluminum Co
Rolling Mill - Certified Metal
Certification of Properties and Analysis

Physical test: 11B224 Aluminum Alloy: 1100 Temper: -O- Thickness: .0630

Tested For: Copper and Brass Sales

6156 PO No: 5400200310-R01

Chemical	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Others	Al
Min Range	..		0.05	..	..	..	..	..	..		
Max Range	.95 Si	+ Fe	0.20	0.05	..	..	..	0.1	..	0.05	

Coil Ref. No.	1	2	3	4	5						
Tensile Strength KSI	14.10	14.06	14.04	14.06	14.14						
Yield Strength KSI	5.29	5.14	5.07	5.07	4.93						
% Elong. in 2 in.	30.80	30.40	30.70	31.30	32.30						

Coil Ref. No.											
Tensile Strength KSI											
Yield Strength KSI											
% Elong. in 2 in.											

Coil Ref. No.											
Tensile Strength KSI											
Yield Strength KSI											
% Elong. in 2 in.											

Coil Ref. No.											
Tensile Strength KSI											
Yield Strength KSI											
% Elong. in 2 in.											

Remarks: Tested By: RJD

Certified Date: 21 Nov 2013

Certified By
Lab Manager

RJD .063 X 48.000 MF 5/5

ITEM # ALFLR01243

MEETS/EXCEEDS ASTM B209-10 SPEC

BLANKS: COILS TO PRESSROOM

Thursday, November 21, 2013

Melted/Manufactured In USA

QF 824-1-1

Page 1 of 1

From: Copper and Brass Sales CA

Cust. SIEGS MANUFACTURING LTD.

Del.: 2402875712

CstOr

CstOr 1514

Wgt.: 1,109.542 LB

Date 12/19/2013

John L. Zambetti

ThyssenKrupp Materials NA
Copper and Brass Sales Division
19044 95A Avenue
SURREY BC V4N 4P2
Tel.: +16048823493 Fax: +16048820586



Order number	Ord-pos	Del-pos	Part description
Customer PO	PO date	Quantity	Customer Part
MTR header	MTR type	Search criteria	Heat lot
			Sample number
C8A/1401788868	000020	900001	1100 Aluminum - O Sheet 0.06300 X Width
1514	12/18/2013	74 ST	
Att_001.PDF	NCAP	930230267220130003	11A711
C8A/1401788868	000020	900002	1100 Aluminum - O Sheet 0.06300 X Width
1514	12/18/2013	26 ST	
Att_002.PDF	NCAP	930235185120130004	11B224

Delivery number
2402875712
Date
12/19/2013

SIEGS MANUFACTURING LTD.
6236 205 ST
LANGLEY V2Y 1N7
CANADA

Skana Aluminum Company

Rolling Mill - Certified Metal

Certification of Properties and Analysis

Physical test: 11A711 Aluminum Alloy: 1100 Temper: -O- Thickness: .0630

Tested For: Copper and Brass Sales

6156 PO No: 5400197413-R01

Chemical	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Others	Al
Min Range	..		0.05	..	..	..	..	..	..		
Max Range	.95 Si	+ Fe	0.20	0.05	..	..	..	0.1	..	0.05	

1	13.28	4.34	31.80	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Others
				.17	.44	.10	.00	.00	.00	.00	.00	.01	.00

Al

99.20

2	13.38	4.25	31.90	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Others
				.17	.43	.10	.00	.00	.00	.00	.00	.01	.00

Al

99.20

3	13.44	4.46	32.70	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Others
				.17	.43	.10	.00	.00	.00	.00	.00	.01	.00

Al

99.20

4	13.55	4.68	31.40	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Others
				.17	.44	.10	.00	.00	.00	.00	.00	.01	.00

Al

99.20

5	13.31	4.47	30.30	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Others
				.17	.43	.10	.00	.00	.00	.00	.00	.01	.00

Al

99.20

Remarks: Tested By: RJD

Certified Date: 10 Oct 2013

Certified By:
Lab Manager

Kenna Compton

RJD .063 X 48,000 MF 5/5

ITEM # ALFLR01243

MEETS/EXCEEDS ASTM B209-10: SPEC

BLANKS: COILS TO PRESSROOM

Thursday, October 10, 2013

Melted/Manufactured in USA QF 824-1-2

Page 1 of 2

From: Copper and Brass Sales CA

Cust. SIEGS MANUFACTURING LTD.

CstAr

Wgt.: 3,157.927 LB

Del.: 2402875712

CstOr 1514

Date 12/19/2013

John R. Zambetti